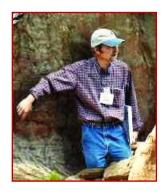
## GeoScience Adventures *and* Bighorn Basin Geoscience Center









#### **CONTACT**

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# WORKSHOP - AMAZING GEOLOGY ...

### ... GEOLOGY OF THE BIG HORN MOUNTAINS

WHERE: SHELL, WYOMING WHEN: JULY 6 thru 8, 2014

### INSTRUCTORS: Dr. Erik P. Kvale and Kim Sowder

The Bighorn Basin in Wyoming, and the adjacent Big Horn Mountains, is the setting for one of the finest, natural, teaching laboratories in the western hemisphere. Every major time period (except the Silurian) is represented by rocks and fossils in this area. We will spend three days showing participants how the Big Horn Mountains and the Bighorn Basin folded, faulted, filled with sediments, and then was exhumed with much of the sediment removed, transported, and deposited in the ancient Mississippi Delta. Along the way, we will see evidence of huge ancient volcanic eruptions, changing climates and shifting geological plates, all of which shaped the Wyoming that we know today..

Workshop participants learn to read and interpret from the geological record paleoenvironments, paleoclimate, ancient ecosystems, and mountain building events. In addition, techniques and concepts, including the use of mapssss and GPS, are taught that teachers can readily adapt to various grade levels. Teachers taking the workshops for credit must develop and submit a lesson-plan derived from their workshop experience. Assessment of the program based on discovery-based exercises, post-workshops evaluations, and anecdotal feedback indicate that participants substantially increase their confidence and interest in teaching earth-science concepts. Participants will be encouraged to collect rocks, **INVERTEBRATE** fossils. Professional recertification credits or college credits (pending) will be available.

Cost for each workshop is **\$250 per 3-day workshop** which includes box lunches, refreshments, handouts, handbook, and two hours recertification credit from the Professional Teaching Standards Board.

Class sizes are limited, so early registration is recommended.

NOTE: Participants should be physically able to spend three days in the field in rugged open terrain, carrying their own water and supplies – backpacks and good hiking shoes recommended.

To Register, go to the web at WWW.BBGEOSCIENCE.ORG

